

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Balancing Equations

Balance the following chemical equations.

1. \_\_\_\_\_ Fe + \_\_\_\_\_ H<sub>2</sub>SO<sub>4</sub> → \_\_\_\_\_ Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> + \_\_\_\_\_ H<sub>2</sub>
2. \_\_\_\_\_ C<sub>2</sub>H<sub>6</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ H<sub>2</sub>O + \_\_\_\_\_ CO<sub>2</sub>
3. \_\_\_\_\_ KOH + \_\_\_\_\_ H<sub>3</sub>PO<sub>4</sub> → \_\_\_\_\_ K<sub>3</sub>PO<sub>4</sub> + \_\_\_\_\_ H<sub>2</sub>O
4. \_\_\_\_\_ SnO<sub>2</sub> + \_\_\_\_\_ H<sub>2</sub> → \_\_\_\_\_ Sn + \_\_\_\_\_ H<sub>2</sub>O
5. \_\_\_\_\_ NH<sub>3</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ NO + \_\_\_\_\_ H<sub>2</sub>O
6. \_\_\_\_\_ KNO<sub>3</sub> + \_\_\_\_\_ H<sub>2</sub>CO<sub>3</sub> → \_\_\_\_\_ K<sub>2</sub>CO<sub>3</sub> + \_\_\_\_\_ HNO<sub>3</sub>
7. \_\_\_\_\_ B<sub>2</sub>Br<sub>6</sub> + \_\_\_\_\_ HNO<sub>3</sub> → \_\_\_\_\_ B(NO<sub>3</sub>)<sub>3</sub> + \_\_\_\_\_ HBr
8. \_\_\_\_\_ BF<sub>3</sub> + \_\_\_\_\_ Li<sub>2</sub>SO<sub>3</sub> → \_\_\_\_\_ B<sub>2</sub>(SO<sub>3</sub>)<sub>3</sub> + \_\_\_\_\_ LiF
9. \_\_\_\_\_ (NH<sub>4</sub>)<sub>3</sub>PO<sub>4</sub> + \_\_\_\_\_ Pb(NO<sub>3</sub>)<sub>4</sub> → \_\_\_\_\_ Pb<sub>3</sub>(PO<sub>4</sub>)<sub>4</sub> + \_\_\_\_\_ NH<sub>4</sub>NO<sub>3</sub>
10. \_\_\_\_\_ SeCl<sub>6</sub> + \_\_\_\_\_ O<sub>2</sub> → \_\_\_\_\_ SeO<sub>2</sub> + \_\_\_\_\_ Cl<sub>2</sub>

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Balance the following chemical equations.

1. 2 Fe + 3 H<sub>2</sub>SO<sub>4</sub> → 1 Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> + 3 H<sub>2</sub>
2. 2 C<sub>2</sub>H<sub>6</sub> + 7 O<sub>2</sub> → 6 H<sub>2</sub>O + 4 CO<sub>2</sub>
3. 3 KOH + 1 H<sub>3</sub>PO<sub>4</sub> → 1 K<sub>3</sub>PO<sub>4</sub> + 3 H<sub>2</sub>O
4. 1 SnO<sub>2</sub> + 2 H<sub>2</sub> → 1 Sn + 2 H<sub>2</sub>O
5. 4 NH<sub>3</sub> + 5 O<sub>2</sub> → 4 NO + 6 H<sub>2</sub>O
6. 2 KNO<sub>3</sub> + 1 H<sub>2</sub>CO<sub>3</sub> → 1 K<sub>2</sub>CO<sub>3</sub> + 2 HNO<sub>3</sub>
7. 1 B<sub>2</sub>Br<sub>6</sub> + 6 HNO<sub>3</sub> → 2 B(NO<sub>3</sub>)<sub>3</sub> + 6 HBr
8. 2 BF<sub>3</sub> + 3 Li<sub>2</sub>SO<sub>3</sub> → 1 B<sub>2</sub>(SO<sub>3</sub>)<sub>3</sub> + 6 LiF
9. 4 (NH<sub>4</sub>)<sub>3</sub>PO<sub>4</sub> + 3 Pb(NO<sub>3</sub>)<sub>4</sub> → 1 Pb<sub>3</sub>(PO<sub>4</sub>)<sub>4</sub> + 12 NH<sub>4</sub>NO<sub>3</sub>
10. 1 SeCl<sub>6</sub> + 1 O<sub>2</sub> → 1 SeO<sub>2</sub> + 3 Cl<sub>2</sub>